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R Cuypers, S Kiel, W Luther - Proceedings of the IASTED International … - actapress.com

… generated, it cannot be safely assumed that every component in the **femur** model has … The main reason for this is due to inhomogeneities in the **mesh** surface that … **Sphere** × **Sphere** → **Sphere** Conditions: • Both **spheres** have radii whose absolute distance |r1 – r2| is smaller than …

Automated measurement of objects using deformable models

M Kaus, J Weese, S Lobregt - US Patent App. 10/521,254, 2003 - Google Patents

… For example, when the center of the **femur** head is to be determined, a **sphere** is … Also, when the axis of the **femur** shaft is to be detected, a straight line is selected as geometrical … The **primitive** can be fitted to the triangles of the **mesh** labelled as belonging to a particular sub-part …

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R Cuypers, Z Tang, W Luther, J Pauli - Proceedings of the Fourth IASTED … - actapress.com

… To determine the type of generic primitives (**sphere**, tapered or bent cylinder, bent ellipsoid), the … The final model was used to extract certain significant **femur** features from the SQs … manually extracted values and values de- termined by the above-mentioned **mesh**-model fitting ap …

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… Recent versions of BCAD extend the notion of "kinematic graph" to include shape parameters in the model. Examples of such shape parameters are as fol- lows. • The radius of a **sphere** (see example 6.3). • The position of a vertex in a **mesh primitive**. . . . 3.2 Objective Function …

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… **primitive** volumes, and is comprised of a blended union of spherical primitives. The parameters of the algebraic func- tion are the spatial locations and radii of the **spheres** as well as … Two 3D sample data sets, a **femur** and a molar, are used to demonstrate the effectiveness of the …

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WS Tong, CK Tang - IEEE COMPUTER SOCIETY …, 2003 - visgraph.cs.ust.hk

… (a) Noisy data **Femur**, (b) surface … In each recursive step, The desired LOD is determined by the projected size of the bounding **sphere** of the token on the … To elaborate partial **mesh** connectivity, consider one ex- treme when c = 1. Only the local surface patch exactly at the token …

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… The STL format is gener- ated through the triangular **mesh** construction process adapted from the marching … the mixed **femur** model has a medium-size STL file among the three **femur** models. … Fifty **spheres** with radii ranging from 3 mm to 12.5 mm are randomly joined together to …

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